

Amendments to the Specification:

Amendment A. Please cancel the paragraphs added as amendment D in Paper 10 and as amendment D in Paper 17. Please insert the following new paragraph as the first paragraph of the SUMMARY:

According to the invention, autologous cultured keratinocytes grown on a biocompatible substratum are engrafted on the neodermis of artificial skin covering a wound. Autologous keratinocytes may be cultivated on a commercially available membrane such as LASERSKIN™ artificial skin (available from Fidia Advanced Biopolymers Ltd., Abano Terme (PD), Italy) following pre-seeding with autologous or allogenic dermal fibroblasts. The resultant composite material may then be applied on the neodermis of artificial skin which had been previously engrafted on the patient. The composite material, and specifically Composite Biocompatible Skin Graft (CBSG) material comprises autologous keratinocytes and allogenic or autologous dermal fibroblasts grown on the substratum. A method for fabricating the composite material includes the application of dermal fibroblasts onto the substratum as a feeder layer and then inoculating autologous keratinocytes on the resultant structure. A method for engraftment comprises first applying an artificial skin with a protective silicone membrane on a wound area, thereby allowing vascularization; following vascularization, removing the silicone membrane and engrafting the cultured composite material onto the vascularized artificial skin.

Amendment B. Please add the following new paragraphs in the BRIEF DESCRIPTION OF THE DRAWINGS after the description of Figures 2A-2C on p.6:

Fig. 3 is a photograph at 100X magnification depicting *in vitro* proliferation of keratinocytes on plain LASERSKIN™ artificial skin showing holes for drainage of exudates.

Fig. 4 is a photograph at 400X magnification depicting a Type A modified Composite Biocompatible Skin Graft (CBSG) according to the invention wherein allogenic fibroblasts were seeded on both sides of the LASERSKIN™ artificial skin.

Fig. 5 is a photograph at 400X magnification depicting Type B modified Composite Biocompatible Skin Graft (CBSG) according to the invention wherein fibroblast was seeded on the side opposite the basal side of the LASERSKIN™ artificial skin.

Fig. 6 is a photograph at 300X magnification depicting a complete epithelization of rat wounds grafted with Type A CBSG.

Fig. 7 is a photograph at 100X magnification depicting a complete epithelization of rat wounds grafted with type A CBSG.

Fig. 8 is a photograph at 100X magnification depicting a complete epithelization of clinical wounds grafted with type B.

Amendment C. Please cancel the first page of Appendix A of the specification as originally filed.